Recombinant Human PRKAR1B, His-tagged

Cat. No. PRKAR1B-29537TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PKA regulatory subunit I beta with a C terminal His tag expressed in Sf9 insect cells; 52 kDa inclusive of tag;
Species	Human
ProteinLength	381 amino acids
Description	Cyclic AMP-dependent protein kinase A (PKA) is an essential enzyme in the signaling pathway of the second messenger cAMP. Through phosphorylation of target proteins, PKA controls many biochemical events in the cell including regulation of metabolism, ion transport, and gene transcription. The PKA holoenzyme is composed of 2 regulatory and 2 catalytic subunits and dissociates from the regulatory subunits upon binding of cAMP.
Conjugation	HIS
Molecular Weight	52.000kDa inclusive of tags
Tissue specificity	Four types of regulatory chains are found: I-alpha, I-beta, II-alpha, and II-beta. Their expression varies among tissues and is in some cases constitutive and in others inducible.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: 150mM ImidazoleConstituents: 25% Glycerol, 50mM Tris HCl, 50mM Sodium phosphate, 300mM Sodium chloride, 2mM DTT, 0.1mM PMSF, pH 7.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the cAMP-dependent kinase regulatory chain family.Contains 2 cyclic nucleotide-binding domains.

GENE INFORMATION

Gene Name	PRKAR1B protein kinase, cAMP-dependent, regulatory, type I, beta [Homo sapiens]
Official Symbol	PRKAR1B
Synonyms	PRKAR1B; protein kinase, cAMP-dependent, regulatory, type I, beta; cAMP-dependent protein kinase type I-beta regulatory subunit;
Gene ID	5575
mRNA Refseq	NM_001164758
Protein Refseq	NP_001158230
MIM	176911
Uniprot ID	P31321
Chromosome Location	7pter-p22
Pathway	Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Aquaporin-

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	mediated transport, organism-specific biosystem; Ca-dependent events, organism-specific biosystem; CaM pathway, organism-specific biosystem;
Function	cAMP binding; cAMP-dependent protein kinase regulator activity; nucleotide binding;

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